

Notice of Allowability

Application No.

09/649,428

Applicant(s)

COBBLEY, CHAD A.

Examiner

Alonzo Chambliss

Art Unit

2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interview summary filed on 5/9/03.
2. ☒ The allowed claim(s) is/are 1-25 and 27-51.
3. ☒ The drawings filed on 02 April 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No. <u>8</u> |
| 5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____ | 6 <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Dutcher/Paul T. Parker on May 9, 2003.

2. The application has been amended as follow:

IN CLAIMS:

In claim 1, line 9, before " gasket " insert -- releasable --;

In claim 1, line 9, delete " removably ";

In claim 1, line 11, after " cap-zone " insert -- , and wherein the releasable gasket is configured for removal after encapsulation --;

In claim 13, line 11, after " cap-zone " insert -- , wherein the removable barrier is configured for removal after encapsulation --;

In claim 21, line 10, after " cap-zone " insert -- to at least restrict the flow during encapsulation --;

In claim 27, line 13, after " cap-zone " insert -- to at least restrict the flow during encapsulation --;

In claim 35, line 14, after " cap-zone " insert -- to at least restrict the flow during encapsulation --;

In claim 43, line 15, after " protective casing " insert -- , and wherein the removable barrier is configured for removal after encapsulation --;

In claim 51, line 14, after " cap-zone " insert -- , and wherein the removable seal is configured for removal after encapsulation --;

Allowable Subject Matter

3. The following is a statement of reasons for the indication of allowance subject matter: the prior art of record does not teach or suggest the combination a substrate with a cap-zone defined by encapsulation by a protective casing. A plurality of interconnects having a plurality of first elements in the cap-zone with a plurality of second elements arranged in an array outside of the cap-zone. A plurality of transmission lines coupling the first elements to the second elements. A releasable gasket attached to the substrate outside of the cap-zone, wherein the releasable gasket is configured for removal after encapsulation in claims 1, 13, 43, and 51.

A substrate with a cap-zone defined by encapsulation by a protective casing. A plurality of contact elements arranged in the cap-zone along an edge of the opening with a plurality of ball-pads arranged in a ball-pad array outside of the cap-zone. A plurality of conductive lines that couple the contact elements to the ball-pads. A barrier on the substrate outside of the cap-zone to at least restrict the flow during encapsulation and wherein the barrier covers at least one of the plurality of ball-pads in claims 21, 27, and 35.

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Any inquiry concerning the communication or earlier communications from the examiner should be directed to Alonzo Chambliss whose telephone number is (703) 306-9143. The fax phone number for the Group is (703) 308-772 or 7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 308-7956.



DAVID L. TALBOT
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2818

AC

AC/May 12, 2003